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NEWS 4 APR 04 STN AnaVist \$500 visualization usage credit offered
NEWS 5 MAY 10 CA/Caplus enhanced with 1900-1906 U.S. patent records
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NEWS 7 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 8 MAY 30 IPC 8 Rolled-up Core codes added to CA/Caplus and
USPATFULL/USPAT2
NEWS 9 MAY 30 The F-Term thesaurus is now available in CA/Caplus
NEWS 10 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 11 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
NEWS 12 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 13 JUL 11 CHEMSAFE reloaded and enhanced
NEWS 14 JUL 14 FSTA enhanced with Japanese patents
NEWS 15 JUL 19 Coverage of Research Disclosure reinstated in DWPI

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8
NEWS X25 X.25 communication option no longer available

Enter NEWS followed by the item number or name to see news on that
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FILE 'HOME' ENTERED AT 14:09:36 ON 08 AUG 2006

=> file caplus compendex inspec scisearch
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 14:09:58 ON 08 AUG 2006

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FILE 'SCISEARCH' ENTERED AT 14:09:58 ON 08 AUG 2006
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```
=> s lab on a chip
      3 FILES SEARCHED...
L1      4824 LAB ON A CHIP
```

```
=> s l1 and module?
L2      125 L1 AND MODULE?
```

```
=> duplicate remove
ENTER L# LIST OR (END):L2
DUPLICATE PREFERENCE IS 'CAPLUS, COMPENDEX, INSPEC, SCISEARCH'
KEEP DUPLICATES FROM MORE THAN ONE FILE? Y/(N):n
PROCESSING COMPLETED FOR L2
L3      94 DUPLICATE REMOVE L2 (31 DUPLICATES REMOVED)
```

```
=> s l3 and py<=2000
      2 FILES SEARCHED...
L4      5 L3 AND PY<=2000
```

```
=> display l4 1-5 ibib abs
```

```
L4  ANSWER 1 OF 5  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:      2002:817155  CAPLUS
DOCUMENT NUMBER:      138:398188
TITLE:      Microsystems for biochemical applications based on CVD
              diamond
AUTHOR(S):      Kohn, E.; Adamschik, M.; Kaiser, A.; Mueller, R.;
              Schmid, P.; Denisenko, A.
CORPORATE SOURCE:      Dept. of Electron Devices and Circuits, University of
              Ulm, Ulm, D-89069, Germany
SOURCE:      COMMAD 2000 Proceedings, Conference on Optoelectronic
              and Microelectronic Materials and Devices, Melbourne,
              Australia, Dec. 6-8, 2000 (2000), 259-266.
              Editor(s): Broekman, Leonard D.; Usher, Brian F.;
              Riley, John D. Institute of Electrical and
              Electronics Engineers: New York, N. Y.
              CODEN: 69DFCZ; ISBN: 0-7803-6698-0
DOCUMENT TYPE:      Conference
LANGUAGE:      English
```

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AB  In biochem. microsystems become more and more attractive. Presently they
      are built around capillary assemblies and reaction substrates. However,
      in the future integration with active devices like actuators and sensors
      will become increasingly important. Diamond CVD films possess, attractive
      features for many of the building blocks needed in such a "lab
      on a chip" system. In fact it is the only material
      which can be insulating, semiconducting or metallo-like and is at the same
      time inert and stable within the entire range of chems. in question. In
      this study two important key, elements have been investigated: (1) CVD
      diamond films as inert electrode and FET structure with electrolyte gate,
      representative for many applications like in pH-sensing, and (2) a generic
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microreactor module with a digital ink-jet dispenser with 4
pl-resolution This device has been designed for oligonucleotide synthesis
and its critical performance characteristics are demonstrated.

REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:902085 CAPLUS

DOCUMENT NUMBER: 134:292220

TITLE: An integrated reservoir for on-chip aqueous storage in
microfluidic systems

AUTHOR(S): Patel, Manoj; Henderson, H. Thurman; Bhansali,
Shekhar; Ahn, Chong H.

CORPORATE SOURCE: Center for Microelectronic Sensors and MEMS Department
of Electrical and Computer Engineering & Computer
Science, University of Cincinnati, Cincinnati, OH,
45221-0030, USA

SOURCE: Micro-Electro-Mechanical Systems (1999), 1,
449-453

CODEN: MSIIYAW

PUBLISHER: American Society of Mechanical Engineers

DOCUMENT TYPE: Journal

LANGUAGE: English

AB A reservoir for a silicon-based "lab-on-a-chip

" integrated microfluidic system has been designed, fabricated and
initially characterized. The reservoirs are necessary for storing
reagents, antibodies and buffers required for on-chip capture of target
microorganisms in this work. Aside from the matter of storing fluids and
providing a pressure head for flow or flow augmentation one has the issue
of biochem. compatibility of the contact surface. Where one does not
desire a pressure head, a mere bio-chemical compatible "collapsible" bag is
desired. All these factors are included in the device. This paper
reports design issues, fabrication, packaging and initial characterization
of the reservoirs. Scaling possibilities are essentially unlimited,
however in this case standard reservoirs have been developed in
modules of 1/8 and 1 mL capacity.

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:666882 CAPLUS

DOCUMENT NUMBER: 131:306529

TITLE: Integrated separation and optical detection from novel
on-chip chemical analysis

AUTHOR(S): Warren, M. E.; Anex, D. S.; Rakestraw, D.; Gourley, P.
L.

CORPORATE SOURCE: Photonics Research Department, Sandia National
Laboratories, Albuquerque, NM, 87185-0603, USA

SOURCE: Sandia National Laboratories [Technical Report] SAND (
1998), SAND98-0509, 1-14

CODEN: SNLSDT

DOCUMENT TYPE: Report

LANGUAGE: English

AB This report represents the completion of a two-year Laboratory-Directed
Research

and Development (LDRD) program to study miniaturized systems for chemical
detection and anal. The future of advanced chemical detection and anal. is
in miniature devices that are able to characterize increasingly complex
samples, a lab. on a chip. In this concept,
chemical operations used to analyze complicated samples in a chemical
laboratory--sample handling, species separation, chemical derivatization and
detection--are incorporated into a miniature devices. By using
electrokinetic flow, this approach does not require pumps or valves, as
fluids in microfabricated channels can be driven by externally applied

voltages. This is ideal for sample handling in miniature devices. This project was to develop truly miniature on-chip optical systems based on vertical cavity surface-emitting lasers (VCSELs) and diffractive optics. These can be built into a complete system that also has on-chip electrokinetic fluid handling and chemical separation in a microfabricated column.

The primary goal was the design and fabrication of an on-chip separation column with fluorescence sources and detectors that, using electrokinetic flow, can be used as the basis of an automated chemical anal. system. Secondary goals involved study of a dispersed fluorescence module that can be used to extend the versatility of the basic system and on-chip, intracavity laser absorption as a high sensitivity detection technique.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:41956 CAPLUS
DOCUMENT NUMBER: 130:246067
TITLE: Revolution of the drug discovery process using laboratory-on-a-chip technology
AUTHOR(S): Kniss, Richard
CORPORATE SOURCE: Chemical Analysis Group, Hewlett-Packard Chemical Analysis Group, Palo Alto, CA, 94304-1111, USA
SOURCE: American Laboratory (Shelton, Connecticut) (1998), 30(24), 40-42
CODEN: ALBYBL; ISSN: 0044-7749
PUBLISHER: International Scientific Communications, Inc.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English

AB A review with no refs. Emerging lab.-on-a-chip technol. allows the use of mol. separation modules that perform automated processes very rapidly. This technol. is the integration of basic microfluidic elements to form miniaturized labs. within the boundaries of the microchip; electrokinetic forces are used to move, switch, and mix liqs., in addition to their use as separation tools. Complete biochem. expts. can be performed continuously by designing appropriate chips. Hundreds of compds. can be screened per mo by recently developed liquid handling systems.

L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:378244 CAPLUS
DOCUMENT NUMBER: 126:350932
TITLE: Device and method for producing a modular microsystem for high-accuracy rapid chemical analysis
INVENTOR(S): Cammann, Karl
PATENT ASSIGNEE(S): Cammann, Karl, Germany
SOURCE: Ger. Offen., 28 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19545130	A1	19970605	DE 1995-19545130	19951204 <--
DE 19545130	C2	20010517		
WO 9721095	A2	19970612	WO 1996-DE2351	19961204 <--
WO 9721095	A3	19970710		

W: JP, US

RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
PRIORITY APPLN. INFO.: DE 1995-19545130 A 19951204

AB A new class of simple and praiseworthy rapid microchem. tests (in the form of a flexible, applications-oriented, modular microsystem) is presented.

It rests upon the principle of a position-resolved, mass anal., so-called incremental titration with preferably optical equivalence point reading. The concentration determination of a specific analyte takes place by means of parallel-titrns. (reactions) in a titration-module of sample aliquots from a sampling module in several sep. or connected micro-reaction chambers with known titers (content of a measured solution). The actual sample concentration is read on a dial, in which the equivalence point between two micro-reactors or in the microchannel is exceeded, and thereby a clearly visible sudden color change of an analyte-sensitive indicator occurs. Disturbance-susceptible color-intensity measurements are done away with. Any analyte in liquid or gaseous samples (passive-receiver principle) can be determined rapidly and with high-accuracy on a so-called "lab. on a chip", produced by photolithog. (by LIGA or Si technol.). Examples are given of a modular device with electrochem. readings, the accurate determination of acid or base concns. by using a single reactor, the absolute series of detns. of acids and bases by titration in reaction channels, determination of an analyte with redox properties by 2-dimensional redox titration, determination of inorg. phosphate by precipitation of Al phosphate in a system configuration with a precipitation reactor, determination of heavy metals (e.g. Cd) or fluorine by complexometric titration, determination of an antibody-antigen pair in a microchannel column, immunoassay with enzyme-tagging in ELISA system configuration, determination of COD values and total organic carbon values with a special applications-specific system configuration, water determination by a Karl-Fischer method using a special solvent-resistant system configuration, an absolute reading biosensor for glucose using an enzyme reactor, and a quant. gas dosimeter (passive-sample-receiver) using a special gas-diffusion receiver.

=> FIL STNGUIDE

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	32.69	32.90
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	ENTRY	SESSION
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